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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/684,191	10/14/2003	Long Bao Zhang	USDP2274A-ALL	8860
30265	7590	11/08/2006	EXAMINER	
RAYMOND Y. CHAN			HAN, JASON	
108 N. YNEZ AVE., SUITE 128			ART UNIT	
MONTEREY PARK, CA 91754			PAPER NUMBER	
			2875	

DATE MAILED: 11/08/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/684,191

Applicant(s)

ZHANG, LONG BAO

Examiner

Jason M. Han

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) ☒ Responsive to communication(s) filed on 21 August 2006.

2a) ☒ This action is **FINAL**.

2b) ☐ This action is non-final.

3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4) ☒ Claim(s) 3-15 is/are pending in the application.

4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5) ☐ Claim(s) _____ is/are allowed.

6) ☒ Claim(s) 3-15 is/are rejected.

7) ☐ Claim(s) _____ is/are objected to.

8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9) ☐ The specification is objected to by the Examiner.

10) ☒ The drawing(s) filed on 14 October 2003 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a) ☐ All b) ☐ Some * c) ☐ None of:

1. ☐ Certified copies of the priority documents have been received.

2. ☐ Certified copies of the priority documents have been received in Application No. _____.

3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☐ Notice of References Cited (PTO-892)

2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)

3) ☐ Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date _____.

4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.

5) ☐ Notice of Informal Patent Application

6) ☐ Other: _____.

DETAILED ACTION

Response to Arguments

1. Applicant's arguments filed August 21, 2006 have been fully considered but they are not persuasive.
2. In response to Applicant's arguments, it should be noted that the prior art to Begemann (U.S. Patent 6,220,722 B1) remains commensurate to the scope of the claims as stated by the Applicant within the context of the claim language and as broadly interpreted by the Examiner [MPEP 2111], which is elucidated and recapitulated in the rejection below. At present, the Applicant has not provided sufficient limiting structure within the claim language to render patentability over the prior art.
3. In response to Applicant's argument found in 4(a)-4(b), the Applicant is again reminded that the structural limitations found in the claim language does not specify as to the exact structure of the elongated supporting frame, whereby the Examiner maintains a broad interpretation such that the prior art to Begemann clearly teaches a supporting frame having a dissipating end [Figures 1-2: (1)] and a peripheral surface [Figures 1-2: (3)] at an outer surrounding surface [Figures 1-2: (5)], said supporting frame being of good heat conduction material [Column 3, Lines 56-58, 66-67].
4. In response to Applicant's argument found in 4(c), the Examiner's interpretation was one where the luminary element [Figures 3A-3D or Figures 1-2: (4)] was defined as the whole LED package incorporating the various components identified in the claim language. Said luminary element (or whole LED package) was then interpreted and taught by Begemann to be mounted on the peripheral surface [Figures 1-2: (3)] of the

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supporting frame. Regardless, it is also clear to the Examiner that the "light point 11" of Begemann is mounted on the substrate 3 (or peripheral surface).

5. In response to Applicant's argument found in 4(d), Begemann clearly teaches the supporting frame [Figures 1-2: (1, 3)] being adapted for transmitting and dissipating heat from the luminary element at the dissipating end of the supporting frame [Column 3, Lines 56-58].

6. Applicant's arguments found in 6-12 are not persuasive under the grounds of rejection identified and expounded upon below. To reiterate, the Applicant is advised that the prior art to Begemann (U.S. Patent 6,220,722 B1) remains commensurate to the scope of the claims as stated by the Applicant within the context of the claim language and as broadly interpreted by the Examiner [MPEP 2111], which is elucidated and recapitulated in the rejection below. At present, the Applicant has not provided sufficient limiting structure within the claim language to render patentability over the prior art.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

7. Claims 3-15 are rejected under 35 U.S.C. 102(b) as being anticipated by Begemann (U.S. Patent 6220722).

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8. With regards to Claim 3, Begemann discloses a light source arrangement including:

- An electric input adapter [Figures 1-2: (2)] for electrically connecting with a power source;
- A light head including:
 - = A supporting frame [Figures 1-2: (1, 3)], which is made of good heat conduction material [Column 3, Lines 56-58, 66-67], with at least a dissipating end [Figures 1-2: (1)] and a peripheral surface [Figures 1-2: (3)] at an outer surrounding surface; and
- A luminary unit [Figures 1-2: (4); Figures 3A-3D] including:
 - = A circuit [MC-PCB: Column 4, Lines 53-65] provided on said peripheral surface of said supporting frame and electrically connected with said electric input adapter, and
 - = At least a luminary element [Figure 3] mounted on the peripheral surface of the supporting frame, wherein when the luminary element emits the light in a radial direction with respect to the supporting frame, the supporting frame is adapted for transmitting and dissipating heat from the luminary element at the dissipating end of the supporting frame [Column 3, Line 66 – Column 4, Line 6].

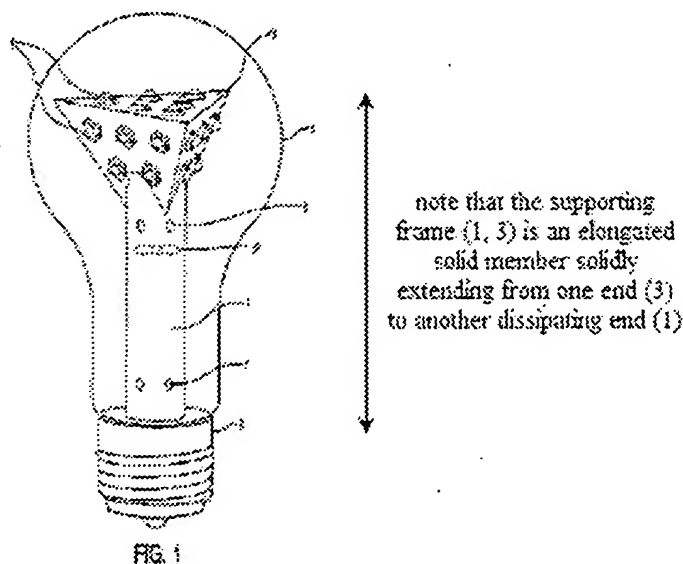
9. With regards to Claim 4, Begemann discloses the circuit including a guiding window [Figure 3D: (15)], wherein when the circuit is provided on the peripheral surface

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of the supporting frame, the luminary element is mounted at the peripheral surface of the supporting frame within the guiding window to electrically couple with the circuit.

10. With regard to Claims 5-6, Begemann discloses the luminary element having two terminal electrodes [Figure 3: (14)] electrically coupling with the peripheral surface of the supporting frame and electrically connecting to the circuit respectively.

11. With regard to Claims 7-9, Begemann discloses the supporting frame [Figures 1-2: (1, 3)] being an elongated solid member solidly extending from one end to another dissipating end [note drawing below].



12. With regard to Claims 10-12, Begemann discloses the supporting frame [Figures 1-2: (1, 3)] being a hollow member having a circular cross section [Figure 1: (1)].

13. With regard to Claims 13-15, Begemann discloses the supporting frame [Figures 1-2: (1, 3)] being a hollow member having a polygonal cross section [Figures 1-2: (3)].

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than **SIX MONTHS** from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jason M. Han whose telephone number is (571) 272-2207. The examiner can normally be reached on 8:00am-5:00pm.

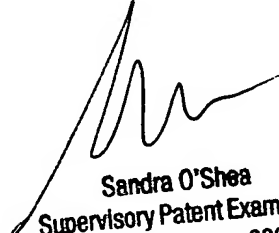
If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Sandra O'Shea can be reached on (571) 272-2378. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Jason M Han
Examiner
Art Unit 2875

JMH (11/3/2006)



Sandra O'Shea
Supervisory Patent Examiner
Technology Center 2800